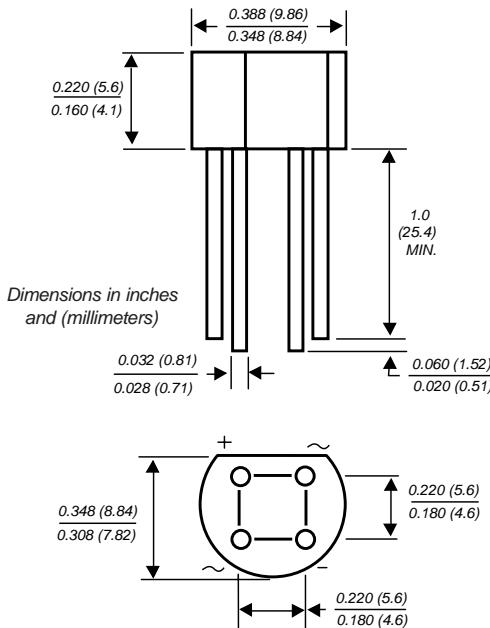




Glass Passivated Single-Phase Bridge Rectifier

 Reverse Voltage 65 and 600V
 Forward Current 1.0A

Case Style WOG



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength
- Typical I_R less than $0.1\mu A$
- High overload surge current
- Ideal for printed circuit boards
- High temperature soldering guaranteed: $260^{\circ}C/10$ seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body over passivated junctions

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Mounting Position: Any

Weight: 0.04 oz., 1.1 g

Packaging codes/options:
1/100 EA. per Bulk Bag

Maximum Ratings & Thermal Characteristics

Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.

Parameter	Symbols	B40 C1000G	B80 C1000G	B125 C1000G	B250 C1000G	B380 C1000G	Units
Maximum repetitive peak reverse voltage	V_{RRM}	65	125	200	400	600	V
Maximum RMS input voltage R + C-load	V_{RMS}	40	80	125	250	380	V
Maximum DC blocking voltage	V_{DC}	65	125	200	400	600	V
Maximum peak working voltage	V_{RWM}	90	180	300	600	800	V
Maximum non-repetitive peak voltage	V_{RSM}	100	200	350	600	1000	V
Maximum repetitive peak forward surge current	I_{FRM}			10			A
Maximum average forward output current for free air operation at $T_A=45^{\circ}C$ R + L-load C-Load	$I_F(AV)$			1.2			A
Peak forward surge current single sine wave on rated load (JEDEC Method)	I_{FSM}			45			A
Rating for fusing at $T_J=125^{\circ}C$ ($t<8.3ms$)	I^2t			10			A^2sec
Minimum series resistor C-load at $V_{RMS} = \pm 10\%$	R_t	1.0	2.0	4.0	8.0	12	Ω
Maximum load capacitance $+50\% -10\%$	C_L	5000	2500	1000	500	200	μF
Typical thermal resistance per leg ⁽¹⁾	R_{QJA} R_{QJL}			36 11			$^{\circ}C/W$
Operating junction temperature range	T_J			-40 to +125			$^{\circ}C$
Storage temperature range	T_{STG}			-40 to +150			$^{\circ}C$

Electrical Characteristics

 Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.

Maximum instantaneous forward voltage drop per leg at 1.0A	V_F	1.0	V
Maximum reverse current at rated repetitive peak voltage per leg $T_A=25^{\circ}C$	I_R	10	μA

Notes:

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B.
 at 0.375" (9.5mm) lead lengths with $0.2 \times 0.2"$ (5.5 x 5.5mm) copper pads

B40C1000G thru B380C1000G



Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

